

ABSTRACT OF THE DISCLOSURE

A color conversion apparatus and method is disclosed. The color conversion apparatus converts an input color signal to match a color gamut of the input color signal with a color gamut of a target Multi Primary Display (MPD) using at least four or more primary colors, and comprises a WYV color signal conversion unit for converting the input color signal into a WYV color signal for an output; a color gamut matching gain calculation unit for calculating a matching gain which is a conversion constant for matching the color gamut of the input color signal with the color gamut of the target MPD; a color gamut matching unit for correcting the WYV color signal based on the matching gain; an XYZ color signal conversion unit for converting the corrected WYV color signal into an XYZ color signal for an output; and an MPD control vector calculation unit for calculating a control vector which is a driving signal of the target MPD corresponding to the XYZ color signal.